



DECIMIN CONTROL SYSTEMS PVT. LTD.

CIN : U32309PN2005PTC020921 ■ An ISO 9001 : 2008 Company ■ www.decimin.com

Naval Infrared Stealth Technology (IRSS)

Engine exhaust IR Signature Suppressors (IRSS) for Vertical or Horizontal exhaust configurations for cooling the engine exhaust gas and exhaust metal duct.

Passive IRSS: Air dilution - Plume Temperature @ 250°C

Active IRSS: Sea water injection - Exhaust Gas Temperature @ 65°C



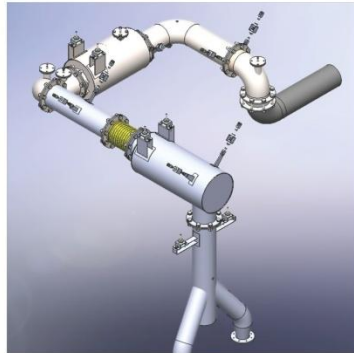
Horizontal Active IRSS System



Vertical Passive IRSS System



LMV Vessel



3D Model



Pneumatically actuated Flap Valve



Pressure Sensor



Cooling Coil



Digital Display

Our Esteemed Customers

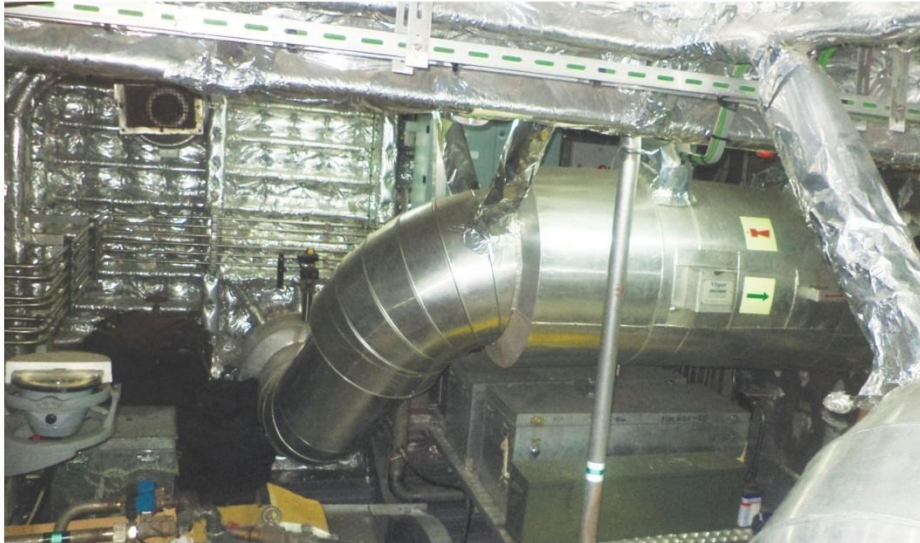


Marine Exhaust Systems



Features

- Exhaust Systems for Diesel Engines and Gas Turbines (Propulsion & DG set)
- Light weight, Stainless Steel construction, lowest system back pressure on Engine.
- Spark Arrestor & Exhaust cooling for safety and IRSS function
- Certified by ABS, IRS, NSTL
- Rich experience with Naval, Coast guard & Commercial vessels



Site Installation



3D Model



Exhaust Ducting



Y Piece



Flexible AVM



Exhaust Silencer

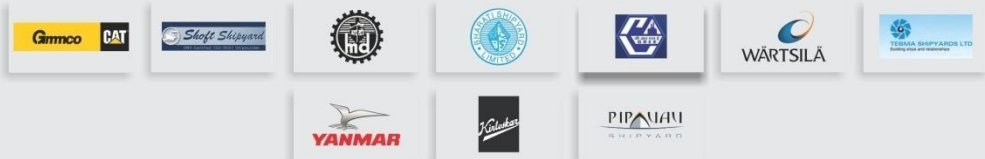


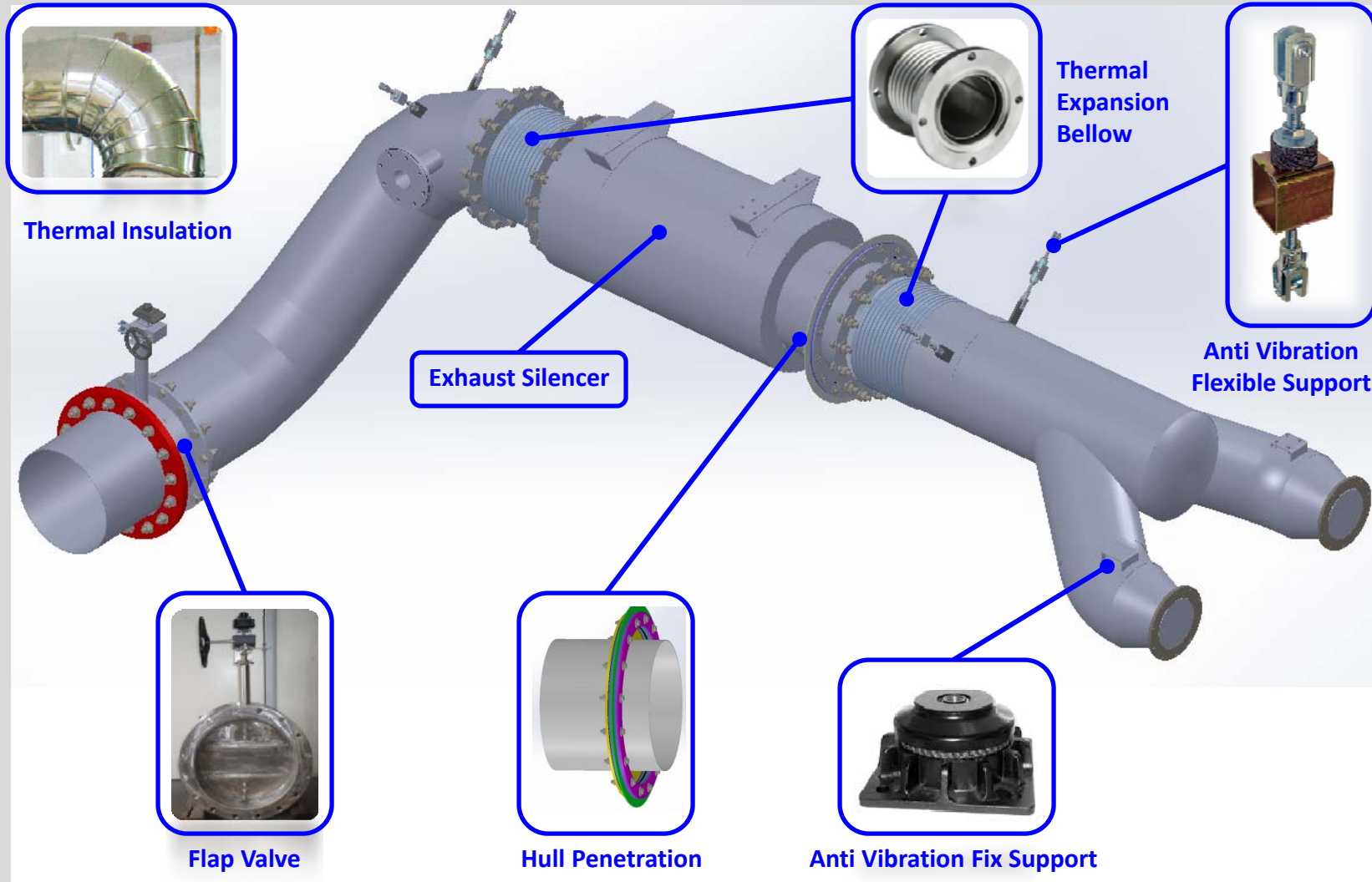
Metallic Expansion Bellow



Fixed AVM

Our Esteemed Customers





HORIZONTAL MARINE EXHAUST SYSTEM WITH SEA WATER COOLING



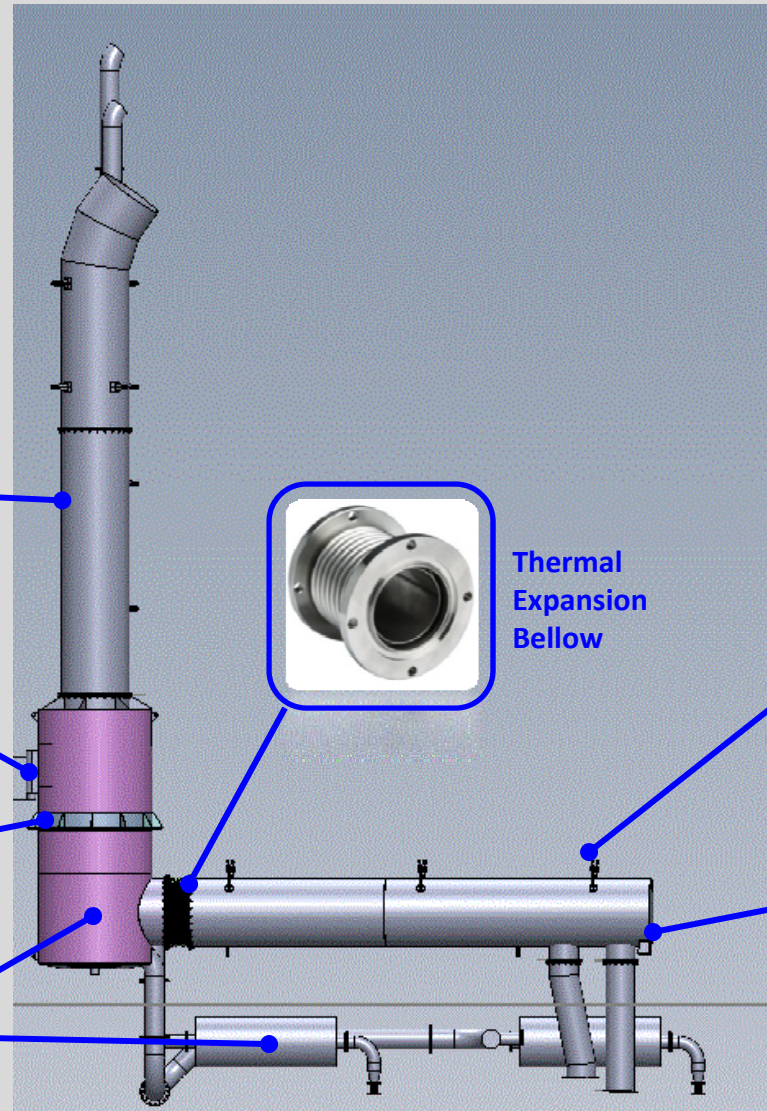
Thermal Insulation

Exhaust Duct with
MOC : MS / SS all
grades / Titanium

Spark Arrestor
Suit collector

Deck Penetration

Exhaust Silencer
With Spark
Arrestor



Thermal
Expansion
Bellow



Anti Vibration
Flexible Support



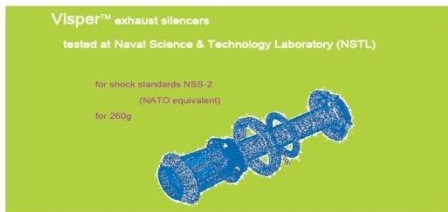
Anti Vibration
Fix Support

VERTICAL MARINE EXHAUST SYSTEM

Exhaust silencer

Features

- Combination of Reactive & Absorptive type
- Assured Low back Pressure
- Acoustic insertion loss in the range of 15 to 50 dB
- Spark Arrestor – Integral or Add-on type
- Inlet sizes from 50 to 800 NB as standard (Larger sizes on request)



Our Esteemed Customers



Vent / Blow Down Silencer



Features

- Axial, Radial & Multiple entry connections to inlet pipe
- Flow rates up to 1500 TPH
- Temperature from 20° C to 600°C
- Inlet Pressure upto 50 bar
- Acoustic Performance up to 75 dB(A)



Our Esteemed Customers



Engine House Acoustics (EHA)

Features

- Assured Noise level outside the Engine house as per CPCB Industrial Norms
- Acoustic Enclosure with metallic Modular panel construction
- Supplied for Genset, Compressor and engines (Gas & Diesel)
- Integration with Electrical, Piping & Fire detection and suppression system
- Ventilation system, Acoustic Vision Windows, Acoustic Louvers



Our Esteemed Customers

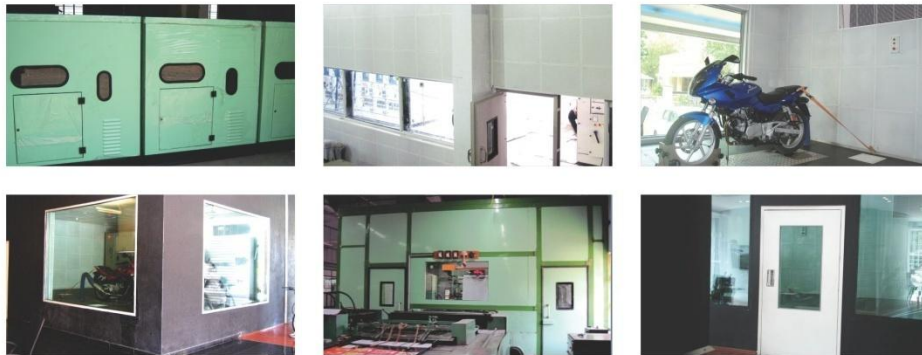


Test Bed Acoustics



Features

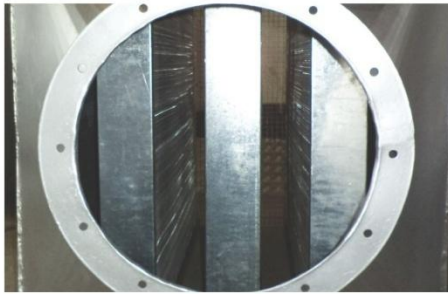
- Noise attenuation up to 50 dB
- Acoustic Wall & Ceiling treatment in modular construction
- Laid on framework for ceiling
- Automatic (Pneumatic / Electrical) and Manual sliding doors
- Utility uni-strut channels
- Chequered or grating floor



Our Esteemed Customers



Other Products



Fan Silencers

Features

- Fan silencer inlet and discharge connections configured to minimize back pressure.
- Maximum acoustic insertion loss with minimum pressure drop
- Vertical or horizontal installation capabilities
- Filter boxes, rain hoods and bird screens available



Noise Barrier

Features

- High Acoustic performance
- External weather proof properties & almost maintenance free
- Designed to withstand wind loads & Impacts
- Modular construction
- Can be provided with transparent barriers



Stack Silencers

Features

- The rugged silencer panel is designed to treat noise in the aggressive service conditions of turbine exhaust.
- Low pressure drop design
- Ease of insertion of individual panels in stack

Our Esteemed Customers



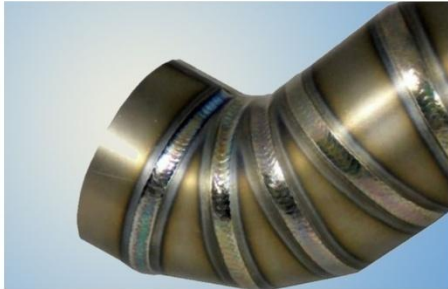
Special Fabrication



SS Welding



Titanium Welding



Titanium Miter Joint



Plasma Cutting



Rolling

Third Party Inspection Agencies



Prototype Testing



Scaled Prototype Testing



Noise Testing



Temp. & Pressure measurement



Actual Size Prototype Testing



Flow measurement



Nozzle Testing



Flap Valve Testing



Thermal Insulation

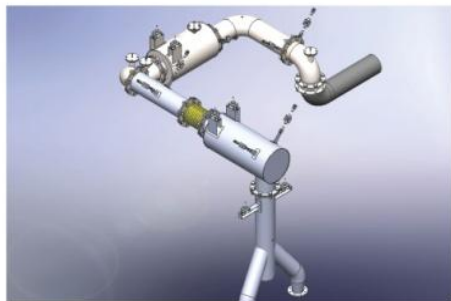


Pressure & Temp. Sensors

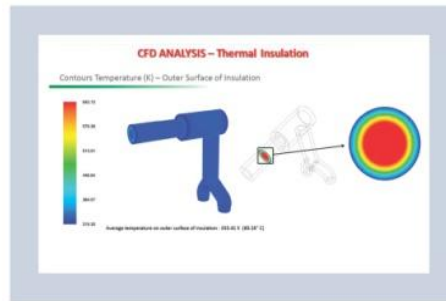
Projects

- IB35001 to 35036
- IB36001 to 36018
- IPV11154 to 11158
- ISV 101 to 114
- SPV 115 to 118
- LMV 01 to 08
- P15 A
- P21
- P17
- P28
- CDL 222 -224
- CDL 227 - 228
- P 1135.6
- V324 / V359
- V352,V354,V355,V356
- RAB 19501

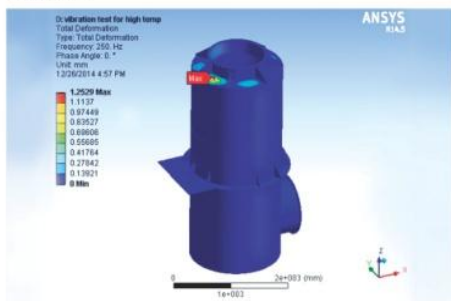
Technical Capabilities



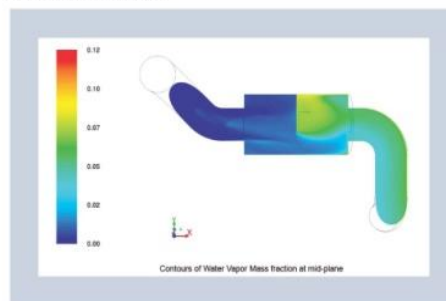
3D Modeling



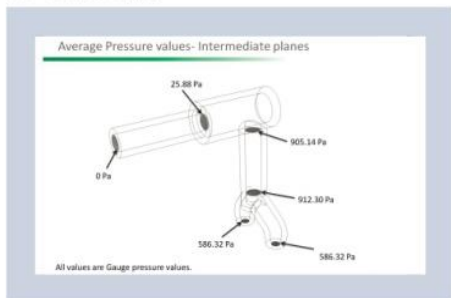
CFD - Thermal Insulation



CFD - Vibration Analysis



CFD - Water Vapor



CFD - Back Pressure Analysis



Exhaust Silencer Design Software

Certified Welders as per ASME section IX Boiler & Pressure vessel code, & approved WPS/PQR for SS321, SA36, SA516 Gr.70, SS409, NV A40, SS316, SS304, Titanium



Decimin Control Systems Private Limited was promoted in the year 2005.

The company designs and manufactures Certified Acoustics / Noise Control products and systems, under ISO 9001:2008 Quality Management systems certified by TUV, since 2012.

Decimin has created references in Marine Exhaust Systems, Silencers, Acoustic Enclosures in India and Abroad.



DECIMIN CONTROL SYSTEMS PVT. LTD.

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